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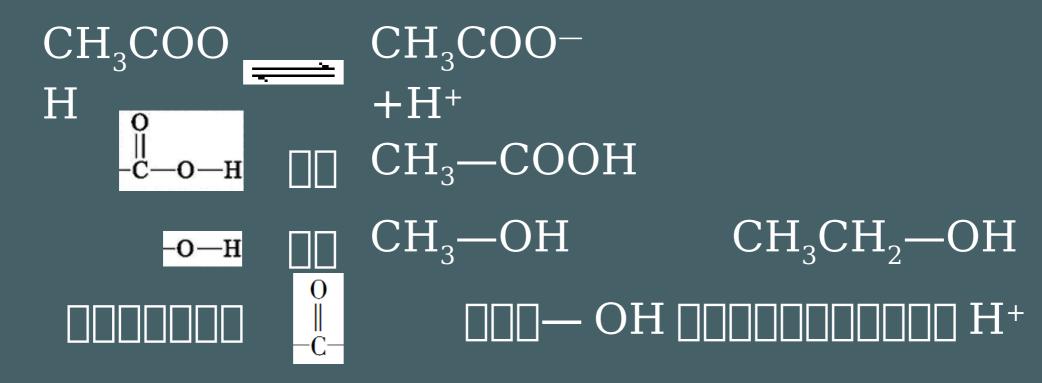
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- •2. **00000000**

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ullet 1. $\Box\Box\Box\Box\Box\Box\Box\Box\Box$



•2. | | | OH | | | |

羧酸	pK_{a}		
丙酸 (C₂H₅COOH)	4.88		
乙酸 (CH ₃ COOH)	4.76		
甲酸 (HCOOH)	3.75		
氯乙酸 (CH₂ClCOOH)	2.86		
二氯乙酸(CHCl2COOH)	1.29		
三氯乙酸(CCl ₃ COOH)	0.65		
三氟乙酸(CF ₃ COOH)	0.23		

•2. [[[[]] OH [[[]]

 $\begin{array}{c} HCOOH>CH_3COOH> \\ C_2H_5COOH \end{array}$

羧酸	pK_a
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- H—
- $\bullet CH_3 \square \square$
- ${}^{\bullet}C_2H_5-\square\square$
- ${}^{\bullet}\mathbf{C}_{3}\mathbf{H}_{7}-\square\square$
- •
- $\bullet C_n H_{2n+1}$
- ullet \mathbf{R} \mathbf{R}

•2. [[[] OH [[] []

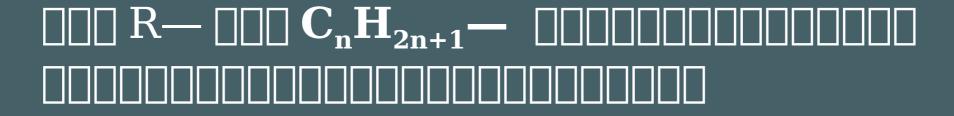
R—COOH ∏∏∏

HCOOH>CH₃COOH>

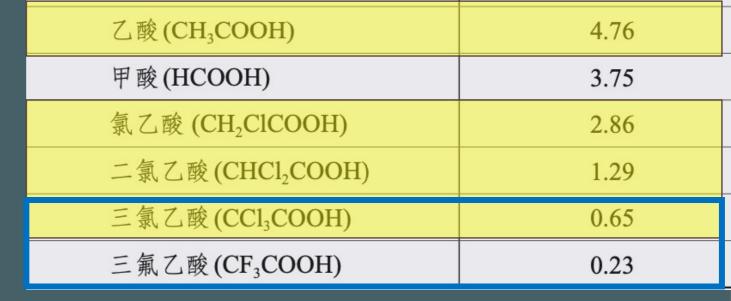


C₂H₅COOH

羧酸	pK_{a}		
丙酸 (C₂H₅COOH)	4.88		
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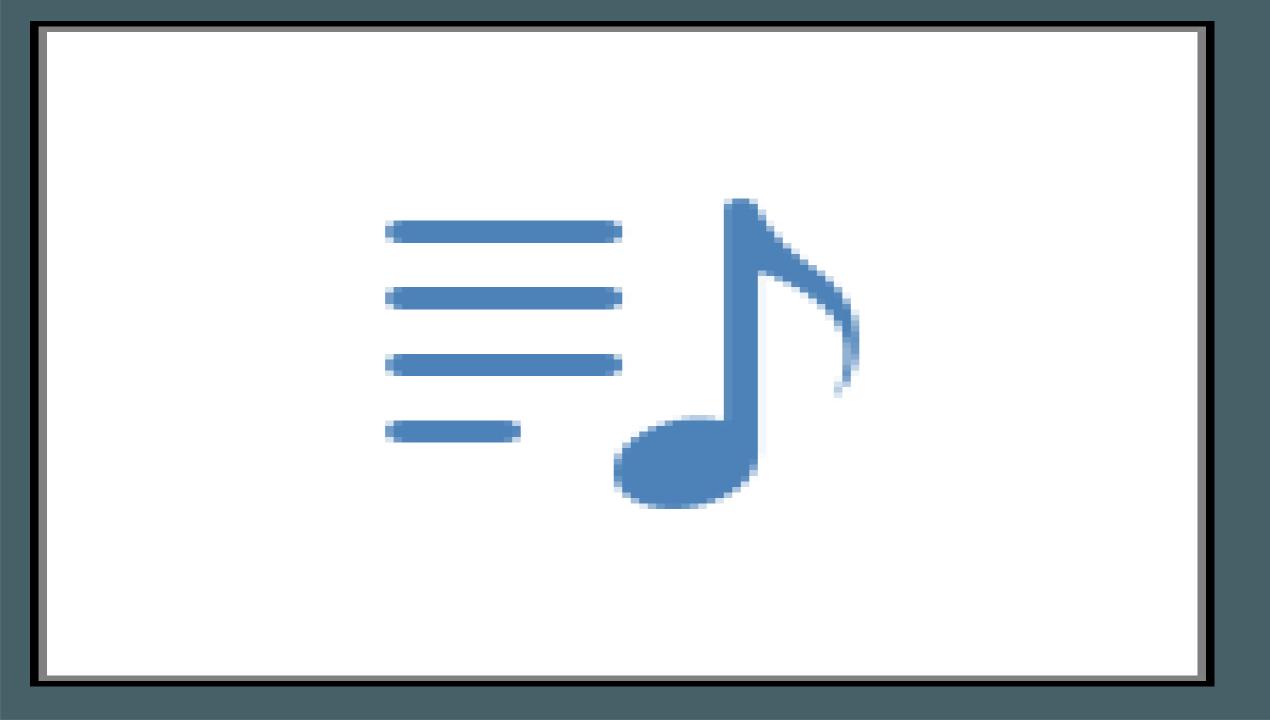


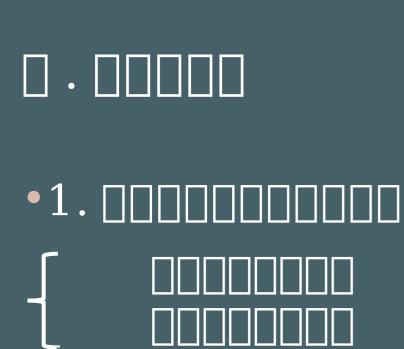


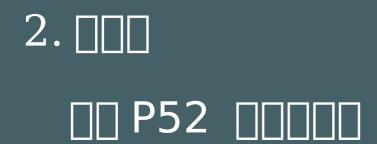


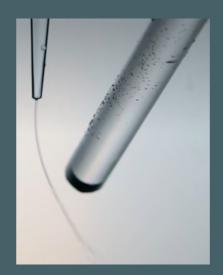
 $CCl_3COOH > CHCl_2COOH > CH_2ClCOOH > CH_3COOH$

CF₃COOH >CCl₃COOH

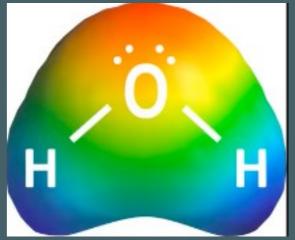












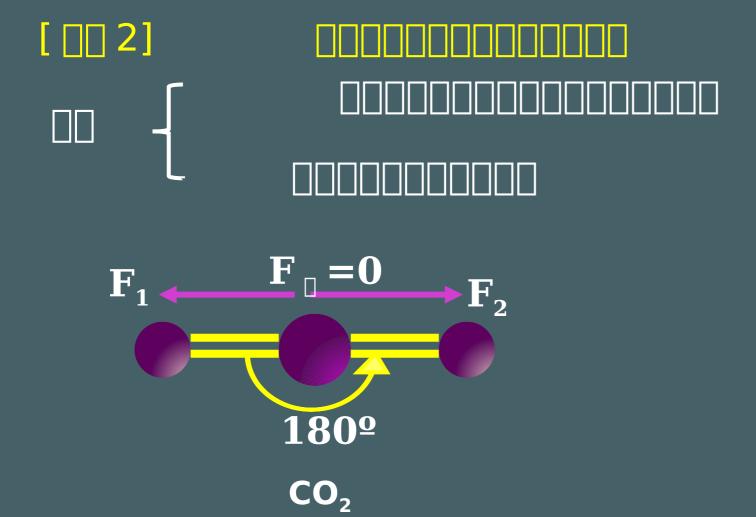


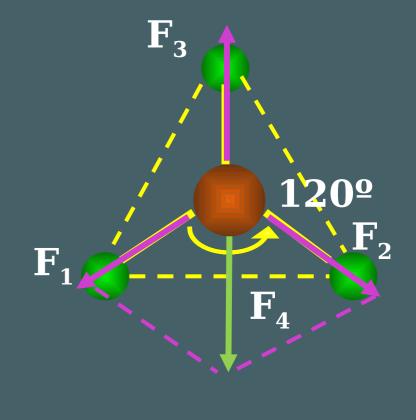
(1)以下双原子分子中,哪些是极性分子,哪些是非极性分子?

 H_2 O_2 Cl_2 HCl

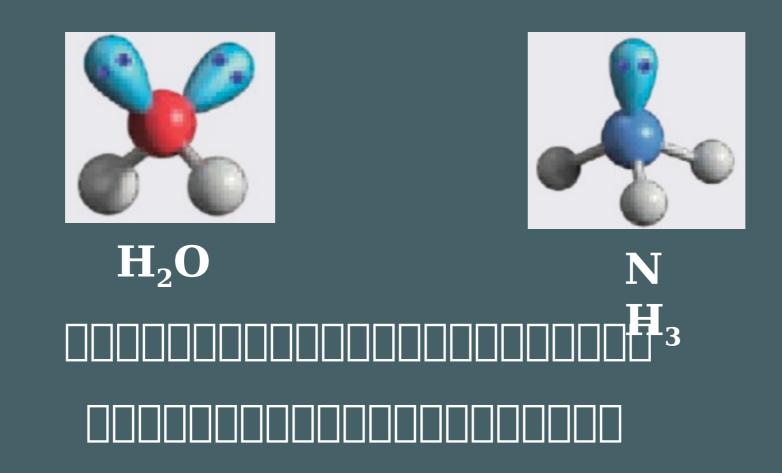
- - (2) P4和C60是极性分子还是非极性分子?
- - - $O_3 \square \square \square \square \square$

(3)以下化合物分子中,哪些是极性分子,哪些是非极性分子? CO₂ HCN H₂O NH₃ BF₃ CH₄ CH₃Cl





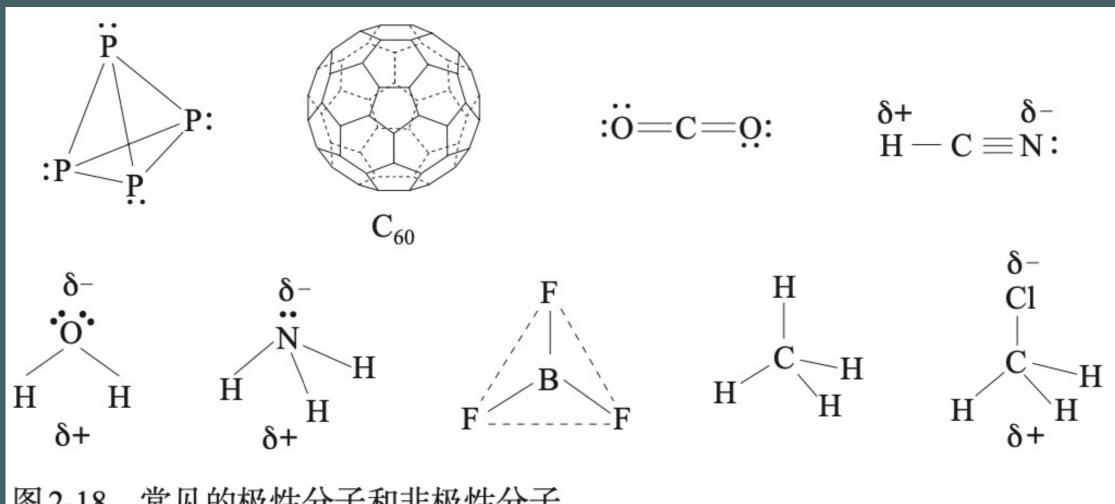
BF₃



3. [][]

			$H_2 \square N_2 \square O_2$
		0	CO [] HF [] HCI
			CO ₂ BF ₃ CH ₄
		0	H ₂ O NH ₃ CH ₃

 $H_2 \square \overline{N_2} \square O_2$ CO | HF | HCI CO₂ BF₃ CH₄ $H_2O \square NH_3 \square CH_3$



常见的极性分子和非极性分子

- **A.**
- $\mathbf{B}.$
- **D.**
- A. $CO_2 \square H_2S$ B. $C_2H_4 \square CH_4$

B

C. $Cl_2 \square C_2H_2$ D.N $H_3 \square HCl$

